

CI-1123

Prijs:

Levertijd: max. 6 weken

64K x 18 = \$ 2,460

128K x 18 = \$ 3,561

MICROPROCESSOR MEMORY

F.O.B. Schiphol-Oost.

**ADD-IN EXPANSION MEMORY FOR THE DEC LSI-1123
AND PDP-1123 MICROCOMPUTERS**

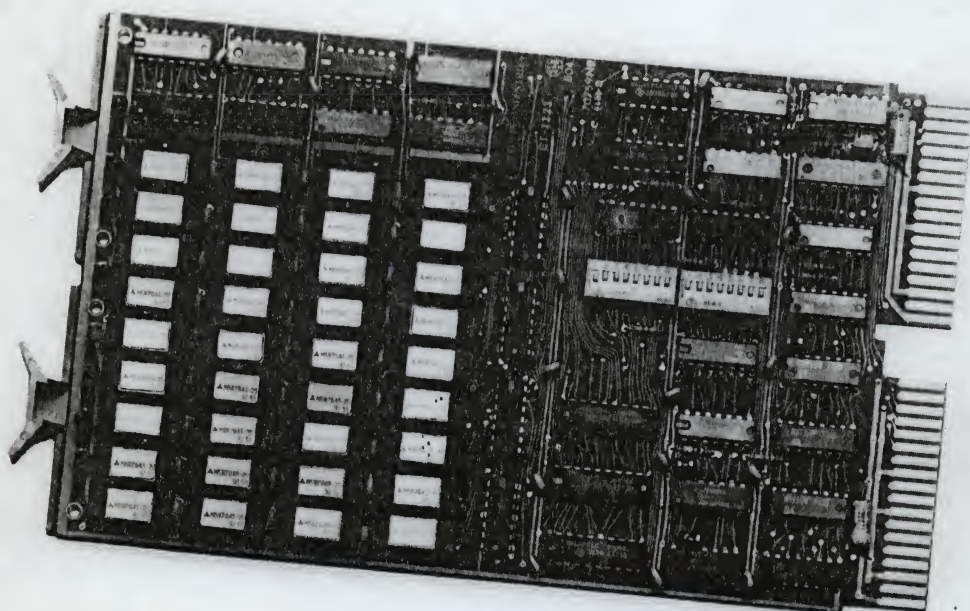
The CI-1123 Features

- Up to 256K bytes in a single option slot
- Single 5 volt power requirement
- Available in 128K and 256K byte configurations
- On board distributed refresh
- Addressable as a contiguous block in 4K word increments through 4 Mega Bytes
- On-board parity generator checker
- Totally LSI-11 hardware and software compatible
- Battery back-up mode (less than 300mA from 5 volt source)
- Off-the-shelf deliveries
- Full one-year parts and labor warranty

MCS EUROPE

Mini-Micro Computer Systems

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The Microprocessor Memory CI-1123 is a high density add-in expansion memory for the DEC LSI-1123 requiring only one option slot for 128K words of memory. The CI-1123 is available with on-board distributed refresh and on-board parity.

Through the use of extended address bits the CI-1123 is addressable in 4K increments through 4 mega bytes of memory for future expansion. The

on-board dip switches assign the addresses for easy customer configuration.

The CI-1123 is designed around the industry standard 65,536 x 1 bit NMOS dynamic Rams (4164). An Access time of 240 NSEC and cycle time of 400 NSEC allows maximum utilization of the LSI-1123's speed capability.

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MicroHPC-1500

AND 16 EXPANSION MEMORY FOR THE CCI 1500
AND PORTA MICROCOMPUTER

1. Overview
2. Features
3. Specifications
4. Ordering Information

- Up to 16K bytes in a single stream slot
- Single 5 volt power requirement
- Expansion to 128K and 512K byte configurations
- On board distribution network
- Compatible as a continuous block in the word movements
- Through 8 Mega Bytes
- On-board parity generator/checker
- 1.5 to 1.8 Mhz hardware and software compatible
- 64000 floating point words (32000 word 2 byte storage)
- On-board network
- Full microprogram and tape storage



The MicroHPC-1500 is a 16K byte expansion memory module for the CCI 1500 and Porta Microcomputer. It is designed to provide additional memory for applications requiring more than the base system's 16K bytes. The module is compatible with the CCI 1500's expansion bus and can be configured for up to 512K bytes of memory.

The MicroHPC-1500 is a 16K byte expansion memory module for the CCI 1500 and Porta Microcomputer. It is designed to provide additional memory for applications requiring more than the base system's 16K bytes. The module is compatible with the CCI 1500's expansion bus and can be configured for up to 512K bytes of memory.

For more information, contact your local distributor or write to: MicroHPC-1500, 1500 Main Street, Suite 100, San Jose, CA 95128.

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GENERAL SPECIFICATION REQUIREMENTS

CHARACTERISTICS	SPECIFICATIONS																								
Capacity	64K to 128K words x 18 bits																								
Cycle Time	400 nanoseconds																								
Access Time	240 nanoseconds																								
Word Size	16 bits																								
Address	22 bits (random access)																								
Data-in/ Data-out	16 bits bidirectional with open collector TTL voltage compatible																								
Modes of Operation	DATO, DATOB, DATI, DATIO, DATIOB																								
Expansion	4K Memory Blocks up to 4M by selecting the proper switch																								
Refresh	On Board distributed																								
Parity	Even (Totally DEC hardware & software compatible)																								
Interface Signals																									
Inputs	TTL Compatible																								
Outputs	Open Collector																								
Operating Temperature	0 to 60°C																								
Storage Temperature	-20 to + 70°C																								
Power Requirements	<table><tr><td></td><td colspan="2"><u>Normal</u></td><td colspan="2"><u>Backup Mode</u></td></tr><tr><td></td><td>Operate</td><td>Standby</td><td>Operate</td><td>Standby</td></tr><tr><td>+ 5.0V</td><td>1.2A</td><td>900mA</td><td>650mA</td><td>—</td></tr><tr><td>+ 5.0VB</td><td>—</td><td>—</td><td>550mA</td><td>300mA</td></tr></table>						<u>Normal</u>		<u>Backup Mode</u>			Operate	Standby	Operate	Standby	+ 5.0V	1.2A	900mA	650mA	—	+ 5.0VB	—	—	550mA	300mA
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+ 5.0V	1.2A	900mA	650mA	—																					
+ 5.0VB	—	—	550mA	300mA																					
Dimensions	8.44'' x 5.187''																								

SPECIFICATIONS		CHARACTERISTICS	
Capacity	840 to 1200 words ± 10%	Capacity	840 to 1200 words ± 10%
Cycle Time	400 microseconds	Cycle Time	400 microseconds
Access Time	500 microseconds	Access Time	500 microseconds
Word Size	16 bits	Word Size	16 bits
Address	32 bits (random access)	Address	32 bits (random access)
Bit Error Rate	10 ⁻⁶ per word per hour (with error correction)	Bit Error Rate	10 ⁻⁶ per word per hour (with error correction)
TTI (Throughput Time)	100 μsec	TTI (Throughput Time)	100 μsec
Power Consumption	100 W (typical)	Power Consumption	100 W (typical)
Operating Temperature	0 to 50°C	Operating Temperature	0 to 50°C
Storage Temperature	-55 to +70°C	Storage Temperature	-55 to +70°C
Shock Resistance	100 g (typical)	Shock Resistance	100 g (typical)
Vibration Resistance	10 g (typical)	Vibration Resistance	10 g (typical)
Humidity	5% to 95% (typical)	Humidity	5% to 95% (typical)
MTBF (Mean Time Between Failures)	100,000 hours (typical)	MTBF (Mean Time Between Failures)	100,000 hours (typical)
Reliability	99.999%	Reliability	99.999%
Warranty	3 years (typical)	Warranty	3 years (typical)